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09/876,152	06/08/2001	Lawrence B. Wolff	Wolff	6718	
23294	7590 08/11/2003				
JONES, TULLAR & COOPER, P.C. P.O. BOX 2266 EADS STATION ARLINGTON, VA 22202			EXAMINER		
			SUNG, CHRISTINE		
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			2878		
			DATE MAILED: 08/11/2003	DATE MAILED: 08/11/2003	

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary Examiner	, .		Application No.	Applicant(s)				
Christine Sung			09/876,152	WOLFF ET AL.				
Th MALING DATE of this communication appears on the cover sheet with the correspond no addir ss Period for Reply A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE ② MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION. Extensions of time may be available under the processions of 3 CFR 1.13(a). In no event, however, may a reply be timely filled If the period for one) specified above it less than thirty (20) days, a largely within the statistic may be available or selected for reply specified above it less than thirty (20) days, a largely reply and legic of the communication of the period for reply specified above its less than thirty (20) days, a largely within the some administration showever, MoNTHS from the maling date of this communication. Finally to reply white the select extended series of the reply with the selected and the communication. Finally white the selected series of the selected series of the selected series of the communication. Finally white the selected series of the selected series of the selected series of the communication is series. Finally the selected series of the selected series of the selected series of the selected series of the selected series. Finally the series of the selected series of the selected series of the selected series of the selected series. Finally the selected series of the selected series. Finally the series of the selected selected series of the selected selected series of the selected selected selected selected selected selected selected selecte		Office Action Summary	Examiner	Art Unit				
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THE MAILING DATE OF THIS COMMUNICATION. Estancisors of min mys be available under the provisions of 3 CPR 1.15(g). In no event, however, may a tepty be limity filed after SX (6) MONTHS from the mailing date of this communication. It is provided to make it is equilibrated above, the maintenine and studyor period within the studyor provided may be added to the communication. Fallow to reply within the stud or extended period for reply will. by studies, cause the application to become ARANCONED (35 U.S.C. § 133). Any reply received by the Office the than three maining date of this communication, even if timely fleed, may reduce any secured patient term adjusted above. The maining date of this communication, even if timely fleed, may reduce any secured patient term adjustment. See 37 CPR 1.174(b). Status 1) Responsive to communication(s) filled on 24 June 2003. 2a) This action is FINAL. 2b) This action is ron-final. 3) Since this application is in condition for allowance except for formal matters, prosecution as to the ments is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213. Disposition of Claims 4) Claim(s) 1-5 is/are pending in the application. 4a) Of the above claim(s) is/are allowed. 5) Claim(s) 1-5 is/are allowed. 6) Claim(s) 1-5 is/are allowed. 6) Claim(s) 1-5 is/are allowed. 7) Claim(s) 1-5 is/are allowed. 8) Claim(s) 1-5 is/are allowed. 10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner. Application Papers 9) The specification is objected to by the Examiner. 10) The drawing(s) filed on is/are: a) accepted or bim objected to by the Examiner. 11 proposed drawing correction filed on 24 June 2003 is: a) 23 approved by the Examiner. 12 The oath or declaration is objected to by the Examiner. 13 Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). 14 Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application). 15 Acknowledgment	Th MAILING DATE of this communication appears on the cover sheet with the correspond nc addr ss Period for Reply							
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Response to Amendment

- 1. The amendment filed on June 24, 2003 has been entered.
- 2. The drawing corrections filed on June 24, 2003 have been accepted and entered.

Claim Objections

3. Claim 3 has objected to because of the following informalities: The claim states " a sensor apparatus describe in claim 2" and therefore contains a grammatical error. Appropriate correction is required.

Claim Rejections - 35 USC § 103

- 4. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 5. This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(e), (f) or (g) prior art under 35 U.S.C. 103(a).
- 6. Claims 1-5 are rejected under 35 U.S.C. 103(a) as being unpatentable over Shivanadian (US Patent 6,222,187).

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Regarding claim 1, Shivanadan discloses a sensor apparatus comprising: a focusing objective lens (element 122) for receiving radiation from an object; a beamsplitter (element 108) for receiving the radiation and dividing the radiation into first and second components; a first focal plane for sensing radiation in the visible spectrum (element 112), and producing a first output signal (Claim 1, part e); a second focal plane array sensing radiation in the IR spectrum (element 110) and producing a second output signal (claim 1, part d); and a signal output related to the signal outputs of the first and second plane arrays (element 200 and column 3, lines 6-9). Although Shivandan does not specify the exact thermal IR range as claimed, he does not limit the apparatus to any particular spectrum of radiation. Rather, he discloses a device for providing a broad wavelength electromagnetic radiation imaging of a device, but preferring wavelengths in the IR and visible light spectra. He further discloses that modifications and variation can be made in the implementation of the apparatus without departing from the scope of the invention (column 5, line 50- column 6, line 3). Therefore it would have been obvious to one having ordinary skill in the art at the time the invention was made to have selected the thermal IR range of 3-15 microns, as it has been included in the acceptable range of implementation of the device disclosed by Shivandan.

Regarding claim 2, Shivanadan discloses that the signals from the optical sensor (element 200) may be amplified in order to manipulate the information to obtain the desired results. The only difference between the claimed invention and the reference is that the claimed invention uses an optical amplifier rather than an electronic amplifier. It would have been obvious to one having ordinary skill in the art at the time the invention was made to have used the electronic amplifier because the optical amplifier not only amplifies the desired radiation, but also amplifies

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the undesired radiation. One of ordinary skill in the art could reduce the errors in the signals by employing an electronic amplifier after the signals have been detected.

Regarding claim 3 and 4, Shivanadan discloses the use of a display and the ability to manipulate the processing of the signals to produce a desired display (Column 5, lines 39-48).

Regarding claim 5, Shivanadan, discloses the claimed invention except for making the device compact. It would have been an obvious matter of design choice to make the device compact, since such a modification would have involved a mere change in the size of the components. A change in size is generally recognized as being within the level of ordinary skill in the art. In re Rose, 105 USPQ 237 (CCPA 1955).

Regarding claim 5. Shivanadan discloses the claimed invention except for making the device hand held or portable. It would have been obvious to one having ordinary skill in the art at the time the invention was make to make it portable, since it has been held that making an old device portable or moveable without producing any new and unexpected result involves only routine skill in the art. In re Lindberg, 93 USPQ 23 (CCPA 1952).

Response to Arguments

Applicant's arguments filed June 4, 20023 have been fully considered but they are not 7. persuasive.

Regarding applicants' arguments about the specific subspectrum IR range, see the above motivation for the rejection of claim 1.

Regarding applicants' arguments about the microscope having a "single focusing objective lens for receiving radiation from a scene," Shivandan does discloses a single focusing objective lens (element 122). The applicant argue that there is a turret of lenses and thus not only



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one objective lens, but only one lens is used at a time to focus the radiation. The other lenses are only used to increase the power of magnification. Therefore a single lens of the turret of lenses has the same function of receiving and focusing the radiation from the scene, as disclosed in the claimed invention.

The applicants state that the beamsplitter does not receive the radiation from the objective lens, but rather from the grating spectrometer (element 106). However, Shivandan discloses that the whole spectrometer (element 106) may be omitted and the light may be separated by spectrum using a beamsplitter (Column 4, lines 31-33). Therefore, the argument that the beamsplitter does not receive light from the objective lens is not persuasive.

No specific arguments have been made regarding dependent claims 2-5.

As such, the claims still stand rejected as shown in detail above.

Conclusion

8. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Christine Sung whose telephone number is 703-305-0382. The examiner can normally be reached on Monday- Friday 7-4 pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, David Porta can be reached on 703-308-4852. The fax phone numbers for the organization where this application or proceeding is assigned are 703-308-7722 for regular communications and 703-308-0956 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is 703-308-0956.



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CS

August 5, 2003

/ HAMD PORTA

SUPER 13000 POTENT EXAMINER
TECHNOLOGY CENTER 2800